Performance Data Sheet

AEA2413YXA

General Information

Model	AEA2413YXA	**Refrigerant**	R-134a
Test Condition	ASHRAE	**Performance Test Voltage**	115V ~ 60HZ
Return Gas	32.2°C (90°F) RETURN GAS	**Motor Type**	CSIR

Performance Information

Evap Temp (°F)		Condensing Temperature (°F)						
		80	90	100	110	120	130	140
-40	Btu/h	1350	967	746	631	562	480	323
	Watts	262	258	256	254	250	244	234
	Amps	5.46	5.29	5.20	5.17	5.16	5.15	5.12
	Lb/h	16.8	12.0	9.24	7.81	6.96	5.93	3.98
-35	Btu/h	1510	1110	877	750	670	578	413
	Watts	274	272	272	271	270	266	259
	Amps	5.52	5.37	5.29	5.26	5.26	5.26	5.23
	Lb/h	18.8	13.8	10.9	9.30	8.31	7.17	5.11
-30	Btu/h	1710	1290	1040	899	804	699	521
	Watts	287	286	287	289	290	289	285
	Amps	5.59	5.45	5.37	5.35	5.36	5.37	5.36
	Lb/h	21.3	16.1	12.9	11.2	9.99	8.67	6.47
-25	Btu/h	1950	1510	1240	1070	962	839	646
	Watts	300	300	303	307	310	312	311
	Amps	5.67	5.53	5.47	5.46	5.48	5.50	5.50
	Lb/h	24.3	18.8	15.4	13.4	12.0	10.4	8.02
-20	Btu/h	2230	1760	1460	1270	1140	996	783
	Watts	313	315	319	325	330	335	336
	Amps	5.74	5.61	5.56	5.56	5.60	5.63	5.64
	Lb/h	27.7	21.9	18.2	15.9	14.2	12.4	9.75
-15	Btu/h	2530	2030	1710	1500	1340	1170	931
	Watts	327	330	336	343	351	357	361
	Amps	5.80	5.69	5.65	5.67	5.72	5.76	5.79
	Lb/h	31.5	25.3	21.3	18.6	16.6	14.5	11.6
-10	Btu/h	2870	2340	1980	1740	1550	1350	1090
	Watts	342	346	353	362	371	380	387
	Amps	5.87	5.77	5.75	5.78	5.84	5.90	5.94
	Lb/h	35.8	29.1	24.7	21.7	19.3	16.8	13.6
-5	Btu/h	3230	2660	2270	1990	1770	1540	1250
	Watts	357	362	370	381	392	403	412
	Amps	5.92	5.84	5.83	5.88	5.96	6.04	6.09
	Lb/h	40.3	33.3	28.4	24.9	22.1	19.3	15.6

0	Btu/h	3620	3010	2580	2260	2000	1740	1410
	Watts	372	378	388	400	413	426	438
	Amps	5.97	5.90	5.92	5.98	6.07	6.17	6.24
	Lb/h	45.2	37.6	32.2	28.3	25.1	21.8	17.7
5	Btu/h	4020	3370	2900	2540	2240	1940	1570
	Watts	389	395	406	419	434	449	463
	Amps	6.01	5.96	5.99	6.07	6.18	6.30	6.39
	Lb/h	50.4	42.3	36.3	31.9	28.1	24.3	19.7
10	Btu/h	4450	3750	3230	2830	2490	2140	1730
	Watts	406	413	425	440	456	473	489
	Amps	6.03	6.00	6.05	6.15	6.29	6.42	6.53
	Lb/h	55.9	47.1	40.6	35.5	31.2	26.9	21.8

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	2.203373E+04	6.104209E+02	1.233799E+01	2.747985E+02
C2	1.557020E+02	4.077209E+00	-1.917255E-02	1.973559E+00
C3	-4.529828E+02	-7.666263E+00	-1.747069E-01	-5.644477E+00
C4	1.012833E+00	2.932297E-02	-4.341861E-04	1.328742E-02
C5	-1.049871E+00	-3.496282E-02	3.347004E-04	-1.329219E-02
C6	3.585889E+00	7.555645E-02	1.524755E-03	4.466790E-02
C7	-3.644229E-03	6.394305E-05	-2.819446E-06	-4.223462E-05
C8	-7.295689E-03	-1.906984E-04	2.629632E-06	-9.382587E-05
C9	1.222455E-03	3.022270E-04	1.176360E-07	1.545647E-05
C10	-1.001765E-02	-2.115171E-04	-4.198806E-06	-1.247825E-04

Value = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3

Te = Evaporator Temperature

Tc = Condensing Temperature